

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	93	(370/395.51).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 10:31
S2	0	((370/395.51).CCLS.) and "e1" same ("STM-1" or "STM 1") same trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:32
S3	4	((370/395.51).CCLS.) and "e1" and ("STM-1" or "STM 1") and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:33
S4	2	((370/395.51).CCLS.) and "e1" and ("STM-1" or "STM 1") and threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:36
S5	3	"e1" and ("STM-1" or "STM 1") and threshold and backhaul and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:38
S6	5	"e1" and ("STM-1" or "STM 1") and threshold and backhaul	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:40
S7	5	((("t1" or "T-1") or ("e1" or E-1)) and ("STM-1" or "STM 1") and threshold and backhaul	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:44
S8	4	((("t1" or "T-1") or ("e1" or E-1)) and ("STM-1" or "STM 1") same threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:46
S9	919	(370/535).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 10:46
S10	7	((370/535).CCLS.) and trunk and threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 10:50
S11	88	((370/535).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:03

## EAST Search History

S12	690	(370/537).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:03
S13	0	("I12andtrunk").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:03
S14	44	((370/537).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:25
S15	136	(370/539).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:25
S16	0	("I36andtrunk").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:25
S17	13	"I36" and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:26
S18	93	(370/540).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:27
S19	17	((370/539).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:28
S20	17	((((370/539).CCLS.) and trunk) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:30
S21	64	(370/541).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:31

## EAST Search History

S22	139	(370/542).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:30
S23	54	(370/543).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:30
S24	150	(370/545).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 11:30
S25	11	((370/541).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:34
S26	11	((370/542).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:36
S27	2	((370/543).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:36
S28	18	((370/545).CCLS.) and trunk	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 12:26
S29	2	("4,899,337").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2004/09/08 12:50
S30	1	"4477898".PN.	USPAT	OR	OFF	2004/09/08 12:28
S31	1	"4528660".PN.	USPAT	OR	OFF	2004/09/08 12:28
S32	1	"4768188".PN.	USPAT	OR	OFF	2004/09/08 12:28
S33	1	(Statistical adj time adj division adj multiplexer) same ("t1" or "t-1") or ("E1" or "e1") same (cable adj station) same (Central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 12:53
S34	2	(Statistical adj time adj division adj multiplexer) and ("t1" or "t-1") or ("E1" or "e1") same (cable adj station) same (Central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 12:55

## EAST Search History

S35	2	(Statistical adj time adj division adj multiplexer) and ("t1" or "t-1") or ("E1" or "e1") and ("stm-1" or "stm 1" or "stm-1") and (cable adj station) and (Central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 12:57
S36	0	(Statistical adj time adj division adj multiplexer) and (("t1" or "t-1") or ("E1" or "e1")) and ("stm-1" or "stm 1" or "stm-1") and (cable adj station) and (Central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 12:58
S37	11	(cable adj station) same (Central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 13:08
S38	2	(underwater adj cable) and (central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 13:10
S39	4	(underwater with cable) and (central adj office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 13:11
S40	0	("under-water" with cable) and (central with office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 13:12
S41	4	("underwater" with cable) and (central with office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 14:16
S42	5	statistical with multiplex\$ and ("E1" or "E-1" ) same ("STM-1" or "stm1" or "stm 1")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 13:40
S43	14	statistical with multiplex\$ and ("E1" or "E-1" ) and ("STM-1" or "stm1" or "stm 1")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 13:40
S44	4	(underwater with cable) and (central with office)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 14:04
S45	981	(370/535).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/10 16:23

## EAST Search History

S46	157	(370/539).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/10 16:23
S47	148	(370/542).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/10 16:24
S48	151	(370/907).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/10 16:24
S49	40	S45 and ("e1" or "t1") same (sonet or sts\$3 or stm\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:07
S50	65	S45 and add with drop with multiplexer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:09
S51	22	S46 and ("e1" or "t1") same (sonet or sts\$3 or stm\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:13
S52	31	S46 and add with drop with multiplexer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:27
S53	1	S47 and ("e1" or "t1") same (sonet or sts\$3 or stm\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:30
S54	6	S47 and add with drop with multiplexer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:50
S55	33	S48 and ("e1" or "t1") same (sonet or sts\$3 or stm\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:30
S56	38	S48 and add with drop with multiplexer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/10 17:50
S57	2	("5,754,545").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:01

## EAST Search History

S58	592	add adj drop adj multiplex\$4 same (rate or speed)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 14:01
S59	0	add adj drop adj multiplex\$4 same multirate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 11:08
S60	4	add adj drop adj multiplex\$4 and multirate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 11:08
S61	391	add adj drop adj multiplex\$4 same (rate or speed) and high and low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 14:00
S62	41	add adj drop adj multiplex\$4 same (rate or speed) and groom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 15:06
S63	10	terminal adj multiplex\$4 same (rate or speed) and groom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 16:59
S64	7	high adj (speed or rate or capacity) same low adj (speed or rate or capacity) same groom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 17:00
S65	0	add adj drop adj multiplex\$3 same (ring or loop) same (balance near2 load)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 09:31
S66	22	add adj drop adj multiplex\$3 same (ring or loop) and (balance near2 load)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 09:36
S67	28	add adj drop adj multiplex\$3 and (ring or loop) and (balance near2 load)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 10:03

## EAST Search History

S68	1	add adj drop adj multiplex\$3 and (ring or loop) and (balance near2 load) same threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 10:04
S69	1	add adj drop adj multiplex\$3 and (balance near2 load) same threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 10:04
S70	117	add adj drop adj multiplex\$3 and (traffic or capacity) same threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:04
S71	0	add adj drop adj multiplex\$3 same central adj office same cable adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:05
S72	0	add adj drop adj multiplex\$3 same central adj office and add adj drop adj multiplex same cable adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:06
S73	80	add adj drop adj multiplex\$3 same central adj office	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:11
S74	1	add adj drop adj multiplex\$3 same cable adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:08
S75	25	multiplex\$3 same cable adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:38
S76	0	multiplex\$3 same cable adj station and multiplex same central adj office	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:11
S77	0	add adj drop adj multiplex\$3 same central adj office and cable adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:11
S78	180	multiplex\$3 same cable adj3 station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 11:38
S79	182	multiplex\$3 same cable near2 station	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 12:05



## EAST Search History

S80	4	cable near land\$3 near station with multiplex\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/01 12:06
S81	2	("5,854,698").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/01 13:14
S82	1	"5299055".PN.	USPAT; USOCR	OR	ON	2005/07/01 12:07
S83	1	"5760934".PN.	USPAT; USOCR	OR	ON	2005/07/01 12:07
S84	2	("5,745,545").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/01 13:15
S85	2	("5,754,545").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/01 13:15
S86	0	("addadjdropadjmultiplexsame(rat eorcapacity)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/01 14:32
S87	611	add adj drop adj multiplex\$3 same (rate or capacity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 14:33
S88	103	add adj drop adj multiplex\$3 same east same west	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 14:35
S89	0	add adj drop adj multiplex\$3 same rate adj adaptation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 14:35
S90	2	add adj drop adj multiplex\$3 same (rate adj adapt\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 14:38



## EAST Search History

S91	1	terminal adj3 multiplex\$3 and add adj drop adj multiplex\$3 same (rate adj adapt\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 14:39
S92	48	terminal adj3 multiplex\$3 and add adj drop adj multiplex\$3 same (rate or capacity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 15:53
S93	28	central adj office with add adj drop adj multiplexer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/01 15:54
S94	180	(370/237).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/20 15:12
S95	82	S94 and (alternat\$3 with (path or route\$3))	US-PGPUB; USPAT	OR	ON	2005/09/20 15:13
S96	73	S94 and (alternat\$3 near3 (path or route\$3))	US-PGPUB; USPAT	OR	ON	2005/09/20 17:14
S97	19	S94 and rout\$3 same (load near3 balanc\$3)	US-PGPUB; USPAT	OR	ON	2005/09/20 17:15
S98	2	("5,754,545").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 08:52
S99	2	("5,185,736").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 08:53
S10 0	2	("6,542,511").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 08:54

## EAST Search History

S10 1	2	("5,105,420").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 08:54
S10 2	2	("5,214,312").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 08:55
S10 3	302	cable near3 station and central near3 office	US-PGPUB; USPAT	OR	ON	2005/09/21 11:59
S10 4	187	cable near2 station and central near2 office	US-PGPUB; USPAT	OR	ON	2005/09/21 11:59
S10 5	30	cable adj station and central adj office	US-PGPUB; USPAT	OR	ON	2005/09/21 12:15
S10 6	2	("5,214,312").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 12:20
S10 7	384	cable adj station	US-PGPUB; USPAT	OR	ON	2005/09/21 12:20
S10 8	131	cable adj station and optical	US-PGPUB; USPAT	OR	ON	2005/09/21 13:00
S10 9	0	cable adj landing adj station and central adj office	US-PGPUB; USPAT	OR	ON	2005/09/21 13:00
S11 0	22	cable adj land\$3 adj station	US-PGPUB; USPAT	OR	ON	2005/09/21 13:33
S11 1	5	cable adj station same co	US-PGPUB; USPAT	OR	ON	2005/09/21 13:34
S11 2	4	cable adj station same pop	US-PGPUB; USPAT	OR	ON	2005/09/21 13:35
S11 3	19	cable adj station and pop	US-PGPUB; USPAT	OR	ON	2005/09/21 13:35
S11 4	5	cable adj station and (point near2 presence or "point of presence")	US-PGPUB; USPAT	OR	ON	2005/09/21 13:44
S11 5	1	branch adj unit same central adj office	US-PGPUB; USPAT	OR	ON	2005/09/21 17:55

## EAST Search History

S11 6	504	(709/237).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 17:55
S11 7	285	(709/240).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 17:55
S11 8	256	S116 and (alternat\$3 with path or rout\$3)	US-PGPUB; USPAT	OR	ON	2005/09/21 17:56
S11 9	256	S118 and (alternat\$3 with path or rout\$3)	US-PGPUB; USPAT	OR	ON	2005/09/21 17:56
S12 0	2	("6,724,722").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/01/26 16:01
S12 1	1115	(370/229).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/01/27 10:50
S12 2	71	S121 and (load near\$3 balanc\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 10:54
S12 3	5	S121 and groom\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 10:55
S12 4	2	S121 and groom\$3 near\$3 traffic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 10:57
S12 5	1042	(370/254).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/01/27 10:57

## EAST Search History

S12 6	308	(370/255).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/01/27 10:57
S12 7	3	S125 and traffic near3 groom\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 10:58
S12 8	1	S126 and traffic near3 groom\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 10:58
S12 9	39	S126 and load near3 balanc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 10:59
S13 0	88	S125 and load near3 balanc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 11:01
S13 1	20	S121 and S125	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 11:02
S13 2	2	S121 and S126	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/01/27 11:02